



Atty Dkt 9000-0055
PATENT

GP/1636
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10/30/02
Date

Diane Kizer
Signature

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

BOLTON et al.

Serial No.: 09/878,781

Group Art Unit: 1636

Filing Date: June 11, 2001

Examiner: Unassigned

Title: IMMUNIZATION OF CAIRY CATTLE WITH GapC PROTEIN AGAINST STREPTOCOCCUS INFECTION

TRANSMITTAL LETTER

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

Transmitted herewith for filing is a Supplemental Information Disclosure Statement, including a Form PTO-1449 and copies of the cited references. It is believed that no fee is due.

The Commissioner is hereby authorized to charge any fees under 37 C.F.R. §§ 1.16, 1.17 and 1.21 which may be required by this paper, or to credit any overpayment, to Deposit Account No. 18-1648.

Respectfully submitted,

Date: 10/29/02

By: Roberta L. Robins
Roberta L. Robins
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**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. § 1.97**

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

The information listed on the attached PTO-1449 forms may be material to the examination of the above-identified application. Copies of the information and completed PTO-1449 forms are submitted herewith. The Examiner is respectfully requested to make this information of official record in the application.

This Supplemental Information Disclosure Statement under 37 CFR § 1.97 is not to be construed as a representation that: (i) a complete search has been made; (ii) additional information material to the examination of this application does not exist; (iii) the information, protocols, results and the like reported by third parties are accurate or enabling; or (iv) the above information constitutes prior art to the subject invention.

Respectfully submitted,

Date: 10/30/02

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U.S. PATENT DOCUMENTS

Exam. Init.	Ref. Desig.	Document No.	Date	Name	Class	Sub Class	Filing Date
	AA-2	4,954,618	Fahnestock				
	AB-2	4,977,082	Boyle et al.				
	AC-2	5,108,894	Bjorck et al.				
	AD-2	5,237,050	Boyle et al.				
	AE-2	5,328,996	Boyle et al.				
	AF-2	5,721,339	Boyle et al.				
	AG-2	5,863,543	Jiang et al.				

FOREIGN PATENT DOCUMENTS

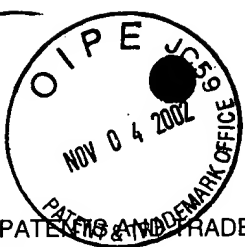
Exam. Init.	Ref. Desig.	Document No.	Publication Date	Country or Patent Office	Class	Sub Class	Translation YES	Translation NO
	AH-2	EP 0 887 410	30 December 1998	EPO				
	AI-2	WO 00/39299	6 July 2000	PCT				
	AJ-2	WO 96/40928	19 December 1996	PCT				
	AK-2	WO 98/18930	7 May 1998	PCT				

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)

Examiner:

Date Considered:

EXAMINER: Initial if citation considered whether or not the citation conforms with MPEP609. Draw a line through the citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



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Serial No.: 09/878,781

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Title: IMMUNIZATION OF DAIRY CATTLE WITH GapC PROTEIN AGAINST STREPTOCOCCUS INFECTION

Exam. Init.	Ref. Desig.	Description
	AL-2	Baird et al., "Epitopes of Group A Streptococcal M Protein Shared With Antigens of Articular Cartilage and Synovium," <i>The Journal of Immunology</i> <u>146</u> (9):3132-3137 (1991)
	AM-2	Bisno, Alan. L., "Group A Streptococcal Infections and Acute Rheumatic Fever," <i>New Eng J. Med.</i> <u>325</u> :783-793 (1991)
	AN-2	Bronze et al., "Epitopes of Streptococcal M Proteins that Evoke Antibodies That Cross-React with Human Brain," <i>The Journal of Immunology</i> <u>151</u> (5):2820-2828 (1993)
	AO-2	Cunningham et al., "Study of Heart-Reactive Antibody in Antisera and Hybridoma Culture Fluids Against Group A Streptococci," <i>Infection and Immunity</i> <u>42</u> (2):531-538 (1983)
	AP-2	Dale, J. L., "Multivalent Group A Streptococcal Vaccine Designed to Optimize the Immunogenicity of Six Tandem M Protein Fragments," <i>Vaccine</i> <u>17</u> (2):193-200 (1999)
	AQ-2	Dale, J. L. and Beachy, G. H., "Multiple, Heart-Cross Reactive Epitopes of Streptococcal M Proteins," <i>J. Exp. Med.</i> <u>161</u> :113-122 (1995)
	AR-2	Dale, J. L. and Beachy, G. H., "Protective Antigenic Determinant of Streptococcal M Protein Shared With Sarcolemmal Membrane Protein of Human Heart," <i>J. Exp. Med.</i> <u>156</u> :1165-1176 (1985)
	AS-2	Froude et al., "Cross-Reactivity Between Streptococcus and Human Tissue: A Model of Molecular Mimicry and Autoimmunity," <i>Microbiology and Immunology</i> <u>145</u> :5-26 (1989)
	AT-2	Kehoe, Michael A., "Group A Streptococcal Antigens and Vaccine Potential," <i>Vaccine</i> <u>9</u> :797-806 (1991)
	AU-2	Lancefield, Rebecca C., "Current Knowledge of Type-Specific M Antigens of Group A Streptococci," <i>J. of Immunology</i> <u>89</u> :307-313 (1962)
	AV-2	Langone, John J., "Protein A of <i>Staphylococcus aureus</i> and Related Immunoglobulin Receptors Produced by Streptococci and Pneumonococci," <i>Advances in Immunology</i> <u>32</u> :167 (1982)
	AW-2	Liljeqvist et al., "Surface Display of Functional Fibronectin-Binding Domains on <i>Staphylococcus carnosus</i> ," <i>FEBS Letters</i> <u>446</u> :299-304 (1999)

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Exam. Init.	Ref. Desig.	Description
	AX-2	Stollerman, G. H., "Rheumatogenic Streptococci and Autoimmunity," <i>Clin. Immunol. Immunopathology</i> , <u>61</u> :131-142 (1991)

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